

MultiFlo™ Microplate Dispenser

BioTek's new MultiFlo Microplate Dispenser is the latest advancement in bulk dispensers offering up to four reagents dispensed in parallel with one compact instrument. The MultiFlo offers a choice of either peristaltic pump or microprocessor controlled syringe drive technologies. Purchase one channel now and upgrade to more later. A wide array of plate types are accommodated from 6- to 1536-well formats. The MultiFlo dispenses a broad volume range from 1 μ L to 3 mL accurately and precisely with a fully modular and upgradable design. BioTek's proprietary angled dispensing ensures compatibility with all dispense protocols including media exchanges with loosely adherent cell monolayers. For assays requiring minimum reagent usage, the MultiFlo's prime volume is under 1 mL.

A built-in priming trough is designed to allow both recovery of reagents or to send primed reagent directly to waste. With a compact footprint and base height of less than 8", the MultiFlo comfortably fits on any laboratory bench or robotic system. Easily integrated with a BioStack™ Microplate Stacker, up to 75 plates can be reliably dispensed by the MultiFlo with walkaway confidence. Alternatively, robotic integration of the MultiFlo to third party automated systems is seamless with available Liquid Handling Control™ Software. LHC™ additionally allows dispense protocols to be created and run from the PC or downloaded to the onboard user interface.



Features:

- Broad volume range from 1 μ L to 3 mL
- 6- to 1536-well microplates with a wide array of plate formats including low profile, standard height, deep well and microtubes
- Up to four independent reagents dispensed in parallel
- Available with one or two peristaltic pumps, two syringe pumps or any combination thereof
- Fully modular and upgradable design
- Speed: dispenses 1536-wells in 7 seconds
- Compact footprint with base instrument height under 8"
- 7° angled dispensing for minimized disturbance to loosely adherent cell monolayers
- Autoclavable dispense paths for guaranteed sterility
- Confidence-Plus™ unconditional lifetime warranty
- Easy to use keypad interface or increased flexibility with LHC PC Software
- BioStack automation compatible
- Available 3-MultiFlo rack for robotic system integration



Modular and Upgradable Design:



1 Reagent Dispenser (with 1 Peristaltic Pump)



2 Reagent Dispenser (with 2 Peristaltic Pumps)



3 Reagent Dispenser (with 1 Peristaltic Pump, 2 Syringe Pumps)



4 Reagent Dispenser (with 2 Peristaltic Pumps, 2 Syringe Pumps)

2 Reagent Dispenser (with 2 Syringe Pumps) also available.

Models:

Instruments:

- MultiFlo™ Microplate Dispenser
- MultiFlo™ Microplate Dispenser with Peristaltic Pump

Dispenser Modules:

- External Peristaltic Module
- External Autoclavable Dual Syringe Module
- External Non-Autoclavable Dual Syringe Module

Syringe Module Manifolds:

- 1x32-tube Small Bore Manifold, for 1536-well microplates
- 1x32-tube Large Bore Manifold, for 1536-well microplates
- 1x16-tube Manifold, for 96-/384-well microplates
- 2x8-tube Manifold, for 96-/384-well microplates

See website or price list for complete listing.

Optional Accessories:

- Peristaltic Pump Cassettes – available in plastic and stainless steel tip varieties
- Cassette Tubing Extension Kits
- Cassette Replacement Tubing Kits
- Cassette Calibration Kit
- Product Qualification Package
- BioStack™ Microplate Stacker
- Liquid Handling Control™ PC Software
- 3-MultiFlo Rack for Robotic System Integration



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Specifications:

Dispensing – 1 or 2 Peristaltic Pumps

Labware Types: 6-, 12-, 24-, 48-, 96-, 384- and 1536-well microplates in low profile, standard and deep well heights

PCR trays
Microtubes

Dispensing Speed: 10 µL/well, 96 wells, 8-tip cassette: 3 seconds
5 µL/well, 384 wells, 8-tip cassette: 7 seconds
1 µL/well, 1536 wells, 8-tip cassette: 21 seconds

Volume Range: 1 – 3,000 µL/well

Sterilization: Autoclave

Cassette Size	Recommended Volume Range	Dispense Accuracy	Dispense Precision
1 µL	1 µL to 50 µL	±5% typical at 1 µL	≤5% CV typical at 1 µL
5 µL	5 µL to 2500 µL	±2% typical at 5 µL	≤2.5% CV typical at 5 µL
10 µL	10 µL to 3000 µL	±2% typical at 10 µL	≤2% CV typical at 10 µL

Dispensing – 2 Syringe Pumps

Labware Types: 96-, 384- and 1536-well microplates in low profile, standard and deep well heights

PCR trays
Microtubes

Dispensing Speed: 20 µL/well, 96 wells, 1x16-tube: 5 seconds
20 µL/well, 384 wells, 1x16-tube: 14 seconds
3 µL/well, 1536 wells, 1x32-tube: 14 seconds
3 µL/well, 1536 wells, 2x32-tube: 7 seconds

Volume Range: 3 – 3,000 µL/well

Sterilization: Autoclave or chemical (*model dependent*)

Dispense Accuracy	Dispense Precision
±1% typical at 5 µL	≤5% CV typical at 5 µL
±1% typical at 20 µL	≤2.5% CV typical at 20 µL
±1% typical at 100 µL	≤1% CV typical at 100 µL

General

Number of Reagents: 1 – 4 (*model dependent*)

Dimensions: Depth: 10.6" (26.9 cm)
Width: 16.1" (40.9 cm)
Height: 7.6" (19.3 cm)

Weight: 14.3 lbs (6.5 kg)

Power: Compatible with 100 to 240 V~ ± 10% at 50-60 Hz

*Specifications subject to change